



SEQUENCE LISTING

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<120> PHARMACEUTICAL PREPARATION AND METHOD OF
TREATMENT OF HUMAN MALIGNANCIES WITH ARGININE DEPRIVATION

<130> B001.001.NPRUS

<140> 10/518,223

<141> 2004-12-15

<150> PCT/GB2003/002665

<151> 2003-06-20

<150> PCT/CN02/00635

<151> 2002-09-09

<150> 60/390,757

<151> 2002-06-20

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<170> FastSEQ for Windows Version 4.0

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<211> 2002

<212> DNA

<213> Homo sapiens

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<223> Chimeric DNA sequence encoding human arginase I
and an N-terminal histidine tag

<400> 2

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gaa caa gag tgt gat gtg aag gat tat ggg gac ctg ccc ttt gct gac 192
atc cct aat gac agt ccc ttt caa att gtg aag aat cca agg tct gtg 240
gga aaa gca agc gag cag ctg gct ggc aag gtg gca caa gtc aag aag 288
aac gga aga atc agc ctg gtg ctg ggc gga gac cac agt ttg gca att 336
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gga aac ttg cat gca cca cct gta tct ttc ctg aag gaa cta aaa 480
gga aag att ccc gat gtg cca gga ttc tcc tgg gtg act ccc tgt ata 528
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aaa aca ggg cta ctc tca gga tta gat ata atg gaa gtg aac cca tcc 864
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<210> 3

<211> 329

<212> PRT

<213> Artificial Sequence

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<223> Chimeric AA sequence of human arginase I and an
N-terminal histidine tag

<400> 3

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Glu Gln Glu Cys Asp Val Lys Asp Tyr Gly Asp Leu Pro Phe Ala Asp
          50          55          60
Ile Pro Asn Asp Ser Pro Phe Gln Ile Val Lys Asn Pro Arg Ser Val
          65          70          75          80
Gly Lys Ala Ser Glu Gln Leu Ala Gly Lys Val Ala Gln Val Lys Lys
          85          90          95
Asn Gly Arg Ile Ser Leu Val Leu Gly Gly Asp His Ser Leu Ala Ile
          100          105          110
Gly Ser Ile Ser Gly His Ala Arg Val His Pro Asp Leu Gly Val Ile
          115          120          125
Trp Val Asp Ala His Thr Asp Ile Asn Thr Pro Leu Thr Thr Thr Ser
          130          135          140
Gly Asn Leu His Gly Gln Pro Val Ser Phe Leu Leu Lys Glu Leu Lys
          145          150          155          160
Gly Lys Ile Pro Asp Val Pro Gly Phe Ser Trp Val Thr Pro Cys Ile
          165          170          175
Ser Ala Lys Asp Ile Val Tyr Ile Gly Leu Arg Asp Val Asp Pro Gly
          180          185          190
Glu His Tyr Ile Leu Lys Thr Leu Gly Ile Lys Tyr Phe Ser Met Thr
          195          200          205
Glu Val Asp Arg Leu Gly Ile Gly Lys Val Met Glu Glu Thr Leu Ser
          210          215          220
Tyr Leu Leu Gly Arg Lys Lys Arg Pro Ile His Leu Ser Phe Asp Val
          225          230          235          240
Asp Gly Leu Asp Pro Ser Phe Thr Pro Ala Thr Gly Thr Pro Val Val
          245          250          255
Gly Gly Leu Thr Tyr Arg Glu Gly Leu Tyr Ile Thr Glu Glu Ile Tyr
          260          265          270
Lys Thr Gly Leu Leu Ser Gly Leu Asp Ile Met Glu Val Asn Pro Ser
          275          280          285
Leu Gly Lys Thr Pro Glu Glu Val Thr Arg Thr Val Asn Thr Ala Val
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Pro Ile Asp Tyr Leu Asn Pro Pro Lys
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<212> DNA
<213> Artificial Sequence

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<223> Synthetic oligonucleotide primer sequence

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Lys Gly Gln Pro Arg Gly Gly Val Glu Glu Gly Pro Thr Val Leu Arg
20 25 30

aag gct ggt ctg ctt gag aaa ctt aaa gaa caa gag tgt gat gtg aag 144
Lys Ala Gly Leu Leu Glu Lys Leu Lys Glu Gln Glu Cys Asp Val Lys
35 40 45

gat tat ggg gac ctg ccc ttt gct gac atc cct aat gac agt ccc ttt 192
Asp Tyr Gly Asp Leu Pro Phe Ala Asp Ile Pro Asn Asp Ser Pro Phe
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caa att gtg aag aat cca agg tct gtg gga aaa gca agc gag cag ctg Gln Ile Val Lys Asn Pro Arg Ser Val Gly Lys Ala Ser Glu Gln Leu 65 70 75 80	240
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ctg ggc gga gac cac agt ttg gca att gga agc atc tct ggc cat gcc Leu Gly Gly Asp His Ser Leu Ala Ile Gly Ser Ile Ser Gly His Ala 100 105 110	336
agg gtc cac cct gat ctt gga gtc atc tgg gtg gat gct cac act gat Arg Val His Pro Asp Leu Gly Val Ile Trp Val Asp Ala His Thr Asp 115 120 125	384
atc aac act cca ctg aca acc aca agt gga aac ttg cat gga caa cct Ile Asn Thr Pro Leu Thr Thr Ser Gly Asn Leu His Gly Gln Pro 130 135 140	432
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 <213> Homo sapiens

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Pro	Lys															